

315 PIPE SEWER TV INSPECTION

315.01 DESCRIPTION

Work consists of furnishing all materials, labor, supervision, and equipment for the television inspection of existing and new pipe sewers and building sewers.

315.02 SUBMITTALS

Before commencing work, the Contractor shall submit to the District for approval:

Specific documentation, information, and reference that the TV inspection contractor and the on-site supervisor for the work have had successful experience in similar work under similar conditions.

Detailed written descriptions, including pertinent supplemental drawings, literature, tables and other material, of equipment, methods, procedures and scheduling proposed for the work.

A television inspection log shall be maintained during the television inspection work. This log shall be on a printed form and shall include the following:

Job/work assignment number.

Date of inspection.

Location and identification of sewer section televised.

Size and type of pipe.

Length of sewer section televised.

Locations of all service connections.

Locations of all structural problems encountered such as cracked or broken pipe, offset or open joints, protruding service connections.

Sags (including length and estimated depth).

Incidence of root intrusion.

Areas where further cleaning is required.

Recommendation of lining requirement.

Locations of service connections shall be referenced by horizontal distance from identified manhole and circumferential position with respect to pipe axes.

A summary report shall be submitted to the Engineer within ten days of the conclusion of TV inspection

work including copies of all television inspection logs. The report shall be neatly bound in a protective cover.

Cassettes shall be submitted to the Engineer within ten days of the conclusion of field work.

315.03 EQUIPMENT

Television Inspection Equipment - 903.04

315.04 EXECUTION

(A) TV INSPECTION. The interior of new pipe sewers and the interior of existing pipe sewers and building sewers shall be visually inspected as directed by means of closed circuit television in the presence of the Engineer.

Inspection for all sewers up through 36-inches diameter shall be performed by moving the camera through the line along the axis of the pipe in either direction at a uniform slow rate by remote means, stopping at each joint or defect to allow adequate evaluation by the Engineer. For sewers 42-inches diameter and larger, camera movement shall be on a "hand held" basis.

The Engineer shall have access to the television monitor and all other operations at all times. The Contractor shall provide space for two District personnel at the same time in the trailer.

Picture quality and definition shall be as approved by the Engineer. If unsatisfactory, the Contractor shall remove equipment, replace it with satisfactory equipment and repeat the inspection at no additional cost to the District.

The Contractor shall make visual and audio tape recordings of each sewer inspection. Stationing shall be recorded on the video tape and at all points of interest including all obstructions, broken pipe and other problems.

Throughout the television inspection activities, the District reserves the right to alter the speed at which the camera is moved through the sewer. Should the quality of the television picture be unacceptable, the Contractor shall make appropriate adjustments in his monitoring equipment or discontinue work until the Engineer agrees that an acceptable picture has been obtained. Telephones or other suitable means of communication shall be set up between the two winches and the control monitor to coordinate the work.

Should the camera become stuck in the sewer, the Contractor will be responsible for its removal at no additional cost to the District.

(B) SAFETY. The Contractor is responsible for safety of personnel and the public during Contract period. The Contractor shall provide all devices, material and equipment necessary to assure the safety and health of personnel and the public.

315.05 MEASURE AND PAYMENT

The unit of measure will be the job with no direct measure taken, or per linear foot as provided in the Schedule of Prices and the contract.

Payment for Pipe Sewer TV Inspection will be made at the contract lump sum price, or contract unit price per linear foot, as specified, which payment will include preparation of logs for all sections inspected, television equipment, and a complete video tape cassette of each section, and all labor, materials, tools, equipment, and incidentals needed to perform television inspection as specified.